

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: n5off@w5ddl.aara.org
Subject: "New" 390 Contract by Collins
Message-ID: <360536@w5ddl.aara.org>

I rec'd a note from a chap with a before unpublished R-390 contract.

14226-PH-51-93 Collins Radio Co. serial 166

This is new to the list, added to the rest to make the 390 list as shown:

Collins	1951	14214-PH-51-93	4952
Collins	1951	14226-PH-51-93	166
Motorola made for Collins	1951	14214-PH-51-93	4134
Motorola made for Collins	1951	14241-PH-51-93	3449
Motorola	1952	26579-PH-52	772
13473			

Keep those cards and letters coming on the Collins receiver data. I post an update to the BA archives approx. monthly.

73 de tom

Reply to:
packet n5off@k5arh.#lft.la.usa.noam
Email (home) n5off@w5ddl.aara.org@usl.edu
Lafayette, LA
office 318-989-3430
home 318-984-2561

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "Lahlum Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: RE: 6CA7/EL34
Message-ID: <9604300224.AA07724@kay.wes.mot.com>

The 6CA7/EL34 is a popular audio output tube. The price differences reflect the sonic desirability of the different brands. I've been using Teslas in my Dynaco power amp last 2 years and they really are pretty good. I'm told they are the best choice for Dynaco Stereo 70's. Due to differences in construction, the various brands do behave differently, so watch your biasing.
73,
Ross KB9JJR

The Apache I picked up last weekend at Belton came without the 6CA7/EL34

modulator tubes. I see that AES sells these at prices from \$6.95 for Chinese, \$12 for Japanese, \$12.50 for Tesla, \$14 for German, \$25.30 for US and \$36.90 for European tubes. This represents quite a disparity in prices.

Anyone know what the relative merits for the different manufacturers are? What are swapfest prices for the 6CA7?

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: John Shriver <jas@shiva.com>
Subject: RE: 6CA7/EL34
Message-ID: <199604301450.KAA00804@shiva-dev.shiva.com>

The Chinese 6CA7/EL34's would be best described as a "gas pentode". Well, they aren't gassy as shipped, but will be after a few months at high plate dissipation. Modulation transformers are every bit as irreplaceable as audio output transformers, don't risk toasting your rig.

While the Apache certainly came with Mullards (all there was when it was made), I don't think you need to compete with the Marshall and Dynaco owners for European EL34's.

The Japanese, Tesla, or German should be fine if the Apache doesn't push the hell out of the tubes. If the B+ is high (over 475V), then you gotta get picky. The USA ones are NOS from Sylvania (also widely sold by RCA).

Hopefully the modulator stage is self-biased, so tube problems won't be likely to result in runaway.

There's a new EL34 from Svetlana (Russia) that looks really nice. New design Svetlana tubes (as opposed to generic Russian) are getting a good reputation, look well made.

As for swapfest prices for the 6CA7, you gotta compete with all the pickers and buyers, including agents of the Japanese audio crowd.

It's not an issue of price (which is all over the place), but getting there first. Sure, the pickers look first for the VT4C/211A and 845's, but next on the list is EL34, KT66, KT88, and 6550...

Svetlana is also making ceramic tubes to compete with Eimac. There was something like a 4CX250 on display at the April MIT flea. The cooling fins weren't precisely spaced, but it looked like a solid product.

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: RE: 6CA7/EL34
Message-ID: <199604301529.KAA20456@dlep1.itg.ti.com>

Greetings,

As an addition to my first post on prices for these tubes, I'll add the following. AES also lists EL34's from Sovtek for \$9 and Svetlana for \$16.50. (NOTE: AES lists these only as EL34's, not 6CA7's.)

Nobody likes the Chinese tubes, but how about Sovtek? I've heard both good and bad things about Sovtek tubes. Anybody have experience with these?

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Lrware@aol.com
Subject: Advance Notice: Orlando BA Auction/spotting report....
Message-ID: <960429210926_103117038@emout07.mail.aol.com>

Hi Firebottle keepers:
Instead of an "after the fact" report, I thought I'd post a slightly time warped one for a change....

This is from the "The Fawghorn News" the newsletter of The Florida Antique Wireless Group:

A silent key auction will be held on May 11 in Orlando, Florida along with the normal swap meet.

Items on the auction list include:

Atwater Kent 10-C Breadboard with BB tipped tubes.

Atwater Kent Sets: #20, #30, #32, #33, #40, etc.

Crosley ACE 3B & ACE V

Philco 60 Cathedral

Radiola III W/tubes

Radiolas 18, 33, etc.

Many Tombstones

Many Battery sets

Many table sets

Test Equipment, boxes of tubes, manuals, etc.

A lot of this is a little early for BA people, but every time I've gone to one

of these, there has been quite a lot of classic BA gear available.

Most members of the "FAWG" are into pre WWII stuff, so I only have a couple of fellow communications equipment collectors/pack rats to drive up the bidding. (Why am I doing this!!! :-)

Aw heck, it's for his family. They should get a fair price on his stuff. :-)

Anyone who wants to know place/time etc. please e-mail me for more info.

-Larry Ware

lrware@aol.com

Orlando, FL

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996

From: Michael Crestohl <mc@shore.net>

Subject: Anyone got a manual for the Johnson Viking 500 handy?

Message-ID: <199604301712.NAA24399@northshore.shore.net>

Hello All Wise Men and Women of Boatanchors.....

^

Please forgive my typo yesterday. This is what I meant.

I need the tube lineup for the Johnson Viking 500 - both the RF and power supply/modulator deck. I'm making a list of all the tubes that is used in my equipment and the 500 manual is filed away up in Montreal.

Thanks for the info....

73,

Michael

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: ARC-5/BC-946 INFO
Message-ID: <9604292031.aa02176@pcusa01.ecunet.org>

When I used to fly N. Africa to N. Europe in C-130's, we'd pipe Radio Luxembourg's English-language pop-music program on LW through to the tail on those long flights. Darned if I can remember the comm-set nomenclature, though.

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Al Evangelista <aevang@cris.com>
Subject: Atwater Kent 40 help?
Message-ID: <1.5.4.16.19960430122031.1bbfb712@pop3.cris.com>

BA friends,

Any AK model 40 experts out there who might give Stuart a hand?

He may be reached at penns@cris.com
TIA

-Al

>Al,

>

>Thanks for your recent response.

>

>After reading through a number of your other E-mail messages, I came across
>one where somebody had just purchased an Atwater Kent Model 40. We'll I guess
>he has the same model that I do.

.snip..

>.. The unit was purchased on 9-13-34 or at least this is the
>date that the tubes have written on them.

>

>Here's a low down on the tubes, which are all operational.

>

>Most of the tubes have TUNG-SOL written on them. They all appear to be
>original.

>

>One of UX280 (or CX380) Rectifier Tube.
>Three of UX226 (or CX326) Rectifying Stages (3 Stages, one tube per stage)
>One of UY227 (or C227) Detector Stage
>One of UX226 (or CX326) First Audio Stage
>One of UX171A (or CX317A) Last Audio Stage
>
>I also have a type E3 Atwater Kent audio speaker.
>
>How would you recommend that I clean it ? Should I carefully remove each
>tube, pulling them out with my hands on the plastic part, at the bottom of
>each tube ?
.snip..
>Stuart.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: drhydro@ames.net (Paul Nelson)
Subject: BA's at Des Moines
Message-ID: <v01540a01adaabe82836b@[1.1.1.1]>

Hmm- Thanks to K0AL for his sightings in Des Moines! I saw some
in addition to his report- (keep yer eyes open, Al, ya missed these!)

BC-375 with 4 tuning units- and all three plugs- \$200
and in pretty decent, tho dusty, shape. Not
sold when I left. He said he had another one
and a bunch more tuning units.

Japanese WW2 field receiver, TRF, 5 tube- 4 UY-11M and 1 UY-14M- \$150
Interesting....covers 400 Kc to 5.7 MC with several plugin
coils, had only one for 1330-2400 Kc with it. Had a set of
tuning curves and a schematic & parts list, all in a plastic
pocket inside a hinged cover. Only numbers I could read on it
were YT-18C on the nameplate and a serial number 941.
About 3" X 8.5" by 8". Takes a 22.5V B-battery supply
Unsold when I left. Anyone know anything about this little
guy?

A pickup truck that appeared to be pretty full of what looked like
HW-101's, musta been more than five or six- didn't look
closely.

National NC-100 with speaker, dusty but complete- \$100
Don't know if it sold.

Paul Nelson "When I go, I want to go quietly, in my
Ames, Iowa sleep, like my grandfather- not

screaming, like his passengers."

(DrHydro@ames.net)

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: KA9EGW@aol.com
Subject: Re: BA's Never seen
Message-ID: <960430085110_283976226@emout10.mail.aol.com>

Moore's book references the HQ-88; did these really exist?

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Re: BA's Never seen/ HQ-88
Message-ID: <199604301549.LAA23620@borg.mindspring.com>

At 07:51 AM 4/30/96 -0500, you wrote:

>Moore's book references the HQ-88; did these really exist?

>

>

Yes these are referenced in several books and I saw a prototype at Hammarlund Mars Hill in the summer of 1964. This was to be part of the new series based upon the HQ-215. Bob, W2HEL/4 was chief engineer then and he said a production line run was not scheduled for several months. Stu Meyer W2GKH was President of Hammarlund then and I also met Mr. Hammarlund (man in his 40's, son of the founder, and from what I could tell just a figurehead) and Bob Belknap another engineer. A group of us took several stations HQ170AVHF's, HX-50's, HXL-1's, a Clegg Zeus/Invader, and a Clegg 22er to the top of Mount Mitchell for the second running of what was called "Operation Skytop." We also had two Galaxy V's for mobiling and giving out counties. All compliments of Hammarlund. Unfortunately we had to give it all back!

I talked to Belknap in the late fall and he said no HQ-88's had been run through yet altho it was announced in early 1964 and featured in CQ and QST new product notices. I did see a whole line of HX-500's in the warehouse. Stu said they were no longer made for ham use, but sold to overseas governments. I'll bet there were 100 or more lined up and more in production. The HX-500 seemed to be far more transmitter than the HX-50 or HX-50A.

Dave K4JRB

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: BA/GB net funzies, etc.
Message-ID: <9604301427.AA119292@csemail.cropsci.ncsu.edu>

Well, with tongue in cheek, tin cans atop the noggin, an' all the bits o' concentration I could muster, I made great gasping geezerness, or attempts at something resembling Morsum Codum withe the ol' Kootie Key, last night. A few fellers showed up on 40 and 80, and did not shriek too much in horror at the QLF.....(:+{}..... Man, dat Kootie Key takes a bit o' fanciful dittlin' to make it play (or mebbe dis ol' pfarte needs a tad more practice at de dittlin').

Did qso wid W5TVW, KC5EZP on 7050R5 and wid WS4S and WA2NHZ on 3579R545. Things went dead after 0300. Bad storms were about locally.

Several fellers have requested that the 80M folks meet at 0200 (guess the ol' pfartes amongst us need their geritol rest and turn in early). Nuttin' wrong with dat, an' perhaps it will allow me to get in the horizontal mode by 0400UTZ.....(:+{}.....

So, let us try the following tonight, and see what happens.....

QTR 0000/0100 UTC QRG 7050R5 KHZ
QTR 0200/0300/0400 UTC QRG 3579R545 KHZ

I did not hear any other Kootie Keys on last night, so I still challenges ye to a Kootie Key Fist Function all this week! So, dusts ye off yer fine bottleburners, an sparkenspitzen on de ol' BA/GB ``net''.

73/ZUT DE NA4G/Bob UP

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: knudsen@gvmail.ih.att.com
Subject: Re: Balanced Transmission Lines, Grounding, & End-Fed Zepps
Message-ID: <9604291549.AA06631@bock.ih.att.com>

Well, if you have RF voltage "loop" in your shack on your ground line, you could do something really counter-intuitive -- put a loading coil ins series with the ground wire, outside at the ground rod. Just enuf to raise the ground lead's electrical lenght from on odd number of quarter-wavelengths to an even number. Now you will have a voltage node (no voltage) but current loop in your shack. Your ground line will radioate more M-field in your shack, and maybe foul up your computer and riceboxes even more, but at least it won't bite your lips.

Lots more ideas may occur as we remember to think of the ground lead as the other side of a dipole, on any unbalanced feed system.

BTW my boyhood Novice shack was Studio A on the 3rd floor, with an 85' randomwire end fed and a 30-odd feet long ground wire to the yard below. Otherwise known as a Vee lying on its side, radiating most of my DX-40's efforts into the yard. Yes I got "bit" a little when I got my General and picked up a mike. 73, mike k aa9rg

PS: I'm going on two weeks' vacation so have put the BA List on "suspend", so may not hear any replies.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: BALANCED TX LINES, GROUNDING & SUCH
Message-ID: <9604292031.aa02164@pcusa01.ecunet.org>

You might try *tuning* your ground/counterpoise system. It takes a simple series LC (or only L or only C) circuit. Put an RF ammeter in your ground lead(s) for a big surprise! Yes, there is sometimes a lot of RF current flowing there.

You can tune the ground for maximum RF current. (MFJ makes a such an device (overpriced\$?).) Of course the tuning of the ground will change for every different band.

I also use RF ammeter in ground lead when positioning radials & other ground-like things--I go for max current.

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Beige Vibrokeyer - who offered it?
Message-ID: <9604301409.AA15000@syseng1.se.melpar.esys.com>

A couple of months ago, someone offered to sell me a beige Vibrokeyer. Unfortunately, I can't remember who it was, so if you read this and it rings a bell, drop me an e-mail.

73,

Paul, K4MSG pbock@melpar.esys.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996

From: Andy Howard WA4KCY <102452.362@CompuServe.COM>
Subject: Re: CD's as dials or indicators
Message-ID: <960430143346_102452.362_DHT57-1@CompuServe.COM>

The easiest way to attach a round dial or any other indicator is to use an insulated coupling (the kind with the bakelite disk with a 1/4 inch shaft coupling on each side). Quite often you can find these in the junk box with a broken bakelite insulator. The coupling on each side is attached to the bakelite with two rivets. Drill a quarter inch hole in the center of the CD, attach the shaft coupling like it was attached to the bakelite wafer and you have a CD that will attach to any 1/4 inch shaft.

I used this technique when building my 4-125A transmitter as a band indicator. I used the aluminum disks that were cut out of the chassis for the 4-125A tube socket. I used a circle cutter on a drill press. The disk then had a quarter inch hole in the very center. You can use press on dry transfer lettering on the CD if desired. I cut a half inch hole just above the shaft and the band shows through the hole when the band change knob is turned.

Regards to all,

Andy, WA4KCY

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: CW Notes With Character --- Sideswiper Style
Message-ID: <Pine.SV4.3.91.960429133858.6363A-100000@uhunix5>

Well dang, and here I thought I was the only one using one of these gizmos. My Kootie key is built around a 5 inch piece of hacksaw blade; base is a stock of aluminum. Good idea there Bob to then mount that on some oiled wood - then it won't slide around as much.

The challenge was how to attach the blade to the 1/4 in. by 1 1/2 in. bolt (that's driven into the aluminum base). I had to make my own bracket for that - I kept the blade insulated (ouch!).

Sure wish I was on the Right Coast with you folks so I could also play on the color burst frequency. I'm going to have to start a color burst 3579 kc net over here in the Pacific.

73 from Hawaii,
Jeff KH2PZ (ex NH6IL, WA6QIJ, WH6AEQ, NM0) (keep of the Coast Guard 500kc/600M stories)

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: TPHAAK@ccmail.monsanto.com
Subject: RE: For Sale
Message-ID: <0031400001065237000002*@MHS>

Folks,

I am still planning on trying to make Dayton. My intentions are to bring some of my equipment which is either excess and or needing time that I just can't find.

The gear is as follows:

Clegg Interceptor Receiver
National NC-173 with Speaker
National NC-183 with Speaker
Gonset G-76 with Speaker supply and original manual
Gonset Superceiver with matching Commander Transmitter and supply
(plus a spare working for parts Superceiver) and manuals
Johnson Viking II with 122 VFO and manual

All of the above work (some are used alot) but need cosmetics. Will sell or trade some or all of it on Collins what have you.

I also have a clean in good condition spare Collins 75A4 with 3 filters and original manual and a Globe Champion 350 with original manual and sales receipt and spare tubes (has NOS plate LV XMFR recently installed, the previous original owner was very intuitive!). I want to use this as trading for a Collins 75A1, Speaker, 32V3 pair in similar good condition.

I might be forced to work that weekend (just started a new job) so I might not make it but my buddy with the space may still want to go and he can bring SOME of the gear along. If any of the list is interested send mail to me direct. I am in one of those moods I guess that I wind up regretting later. When will I ever learn????!!

Tim WA0TSY
tphaak@ccmail.monsanto.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "TOM N LAIRD 5-5777" <TL39597@deere.com>
Subject: FS SB620, SB630

Message-ID: <DACDXX21.TL39597.505015110096121FDACDXX21@TCP30.DX.DEERE.COM>

Date: 04/30/96
From: TOM N LAIRD 5-5777
To:
Subject: FS SB620, SB630

TL39597 - DACDXX21
INTERNET - DACDXE01

Someone here was looking for a SB620 and/or SB630? Saw this packet message. I don't know this guy, but he has a 620 for \$75 and a 630 for, (I think) \$130.

phone to Joel 417-889-6415 WA9YKR

Tom Laird WC9M

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: robert fowle <hammarlund@voyager.net>
Subject: FS: Golden Eagle D-104
Message-ID: <199604301907.PAA11850@vixa.voyager.net>

again my friend has come up with yet another item.
A Golden Eagle D-0104 serial # 02778
this is not the plastic immitation, it is an original.
he asking \$150 + shipping.....

=====] -[->
Robert Fowle KC8DBC
The HAMMARLUND Historian
Ph. voice or fax 517-789-6721
1215 Winifred
Jackson, Mich. 49202-1946
E-mail at: hammarlund@vixa.voyager.net
HAMMARLUND LITERATURE WANTED
WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT
=====] -[->

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "William C. Robbins" <billrobb@serv01.net-link.net>
Subject: FS: Heathkit Parts

Message-ID: <199604301418.KAA17230@serv01.net-link.net>

My 16 year old son Matt, N8UGD, has parted out a couple of Heathkits and will make the parts available.

The kits are the DX-60B, HR-10B, HW-20, and HW-30. E-mail anything you may need to Matt n8ugd@serv01.net-link.net He is not a subscriber here (yet).

I think the old man is getting him hooked on boatanchors

Thanks

Bill

William C. Robbins, WA8CDU
billrobb@serv01.net-link.net

Heathkit Collector

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Pete McCollum 30-Apr-1996 0946 -0600 <mccollum@ssdevo.ENET.dec.com>
Subject: GRA-71 codeburst -- looking for info
Message-ID: <9604301547.AA06504@us3rmc.pa.dec.com>

I'm looking for documentation, info, stories, etc. on the GRA-71 codeburst adapter. It's a gadget that allows you to record a sequence of dits and dahs on a small tape cartridge, then the tape is played back at 300 WPM, and the GRA-71 keys the xmtr directly. The T-784/GRC-109 has the mating connector, as does a few other xmtrs.

I bought one from Fair awhile back. It was used, but sealed in new govt packaging. The two tape carts each had a message on them! I played the tapes through the GRA-71 to my T-784/GRC-109, received the signal on my R-390A, recorded the audio on a cassette tape, played the tape into the sound card on my PC, then decoded the dits and dahs visually on the PC. One tape had a complete message of about 90 characters. The message on both tapes was in code. I tried for awhile to decode them, but no luck. My 'limited' knowledge of cryptography says that they used a substitution cypher (letter frequency distribution approximates plain English). Also, there are a couple of strings of 5 or 6 letters that *repeat*, which makes it unlikely that the messages are just garbage.

Pete
MCCOLLUM@SSDEVO.ENET.DEC.COM

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: GRA-71 codeburst -- looking for info

Message-ID: <60043.ddillman@igc.apc.org>

On Tue, 30 Apr 1996 10:56:09 -0500 (CDT),
Pete McCollum 30-Apr-1996 0946 -0600 <mccollum@ssdevo.UNET.dec.com> wrote:

>I played the tapes through the GRA-71 to my T-784/GRC-109

Pete, as a guy whose T-784 clearly works, may I ask you some questions?

Did your T-784 work out of the box? Mine does not appear to want to work. I ordered a FT-243 crystal on 7020 from JAN to use with the transmitter and I wonder if it's just that the crystal doesn't want to oscillate. What type of crystal do you use in yours?

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: GRA-71 codeburst -- looking for info
Message-ID: <60039.ddillman@igc.apc.org>

On Tue, 30 Apr 1996 10:56:09 -0500 (CDT),
Pete McCollum 30-Apr-1996 0946 -0600 <mccollum@ssdevo.UNET.dec.com> wrote:

>I'm looking for documentation, info, stories, etc. on the GRA-71 codeburst
>adapter.

I'd like to be kept in the loop for information anyone has on the
GRA-71 as I have one of these as well.

Even non radio types are impressed when I demonstrate the thing,
especially the little "makeup brush" between the MX-4496 and KY-468.
What the heck is *that* for?

>The two tape carts each had a message on them! I played the tapes
>through the GRA-71 to my T-784/GRC-109, received the signal on my R-390A,
>recorded the audio on a cassette tape, played the tape into the sound card
>on my PC, then decoded the dits and dahs visually on the PC.

Now *that* is cool! I never thought of checking my MA-9 tape carts
for messages.

Regarding the MX-4496, do you know how you're supposed to use the two coding disks supplied? Mine has a larger one on the MX and a smaller one in a slot.

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: michael.s@kc2kj.k2nesoft.com (Michael Sullivan)
Subject: Halicrafters Book Comments
Message-ID: <199604301407.KAA22008@kc2kj.k2nesoft.com>

1. I got my copy yesterday in the mail. After hearing everyone else wax eloquent about *their* copy I could barely wait. It was worth the rate. Dachis did an excellent job providing an encyclopediac overview of halicrafters products with pictures of every conceivable radio, television, and related products many of which I did not know Halicrafters produced.
2. While it is a masterful job, I do have some criticisms. I would like to have seen some of the business history of the company and some of the principal decisions that led to successful product development as well as some of the failures. There is a whole story, yet to be written, of the fall of American Ham Radio manufacturers in the late sixties at the zenith of the business. Dachis briefly mentions a failed attempt by Halligan to sell the business which quickly resulted in Haligan regaining control shortly prior to the sale to Northrup. Why did Northrup, an aircraft manufacturer, want Halicrafters? Clearly Northrup bolstered Halicrafters to the extent of supporting new product introductions after the acquisition. Did absentee ownership lead to product innovation failures? The apparant weakness of the American manufacturers in the late sixties clearly provided an opening for the Japanese companies to offer competitive products and to gain vital experience satisfying the needs of radio amateurs world-wide. Hallicrafters fell during this time. Is there any correlation with the lack of growth of the american radio amateur population in the late sixties and seventees?
3. Halicrafters' abortive attempt to market television recievers is also worthy of additional research. Many companies marketed televisions after WWII and very few survived. There is an intriguing spanish language television advertising matchbook cover illustrated in Dachis's book imlying that Halicrafter's marketed to South America and perhaps was more successful there. What is the story of that product line?

4. It's a good book and should be on boatanchor shelves. It would have been a great book of some of these questions were treated. That book is yet to be written.

Mike Sullivan michaels@kc2kj.k2nesoft.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>
Subject: RE: Halicrafters Book Comments
Message-ID: <31864242@smtpgate.rfc.comm.harris.com>

Mike Sullivan Sez:

<snip>

....Dachis did an excellent job providing an encyclopediac overview of halicrafters products.... While it is a masterful job.... I would like to have seen some of the business history of the company..... There is a whole story, yet to be written, of the fall of American Ham Radio manufacturers in the late sixties.....

<snip>

Mike echos many feelings about books in the Dachis format but both serve a purpose and a one-size-fits-all book is a very difficult task in deed. The in depth research required is a formidable task and you had better go into it for the pure joy, not the rewards.... There was another Hallicrafters book published in late 80's or early 90's by a Swiss Ham named Max DeHenseler. Max went into the start up history of Hallicrafters and interjected business activity throughout the book which also thoroughly described (mostly) ham radio products. Mr. DeHenseler did this through many interviews with Mr. Halligan and his family. The book looks like the early Moore's book with many photocopies and typewritten text. Currently the AWA has rights to the book and quite frankly we are not sure what to do with it. It would need some sprucing up if it were ever to be published again. I would be interested in hearing from anyone out there who has some thoughts on this. Regards,
Ed Gable K2MP/W2AN
AWA Board of Directors
<emg@rfc.comm.harris.com>

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Jim Dillon <beadgal@ptialaska.net>

Subject: Re:Halli Book Comments

Message-ID: <01BB3669.607B9B40@juneau_121.dialups.ptialaska.net>

Hi Michael and Bibliofans-

Yes, your criticism directed at the dearth of economics and social =
history in Dachis is valid. Researching business history is not only a =
bore, it is often
futile. Business records are slanted to obscure problems and failures, =
not
shed light on things. Then and now. Hallicrafters and Collins as =
consumer
product producers were two of many Vietnam war casualties. The =
profitable
government elements of the businesses lived on as Northrup and Rockwell.
Look at all the pages of 'Hamlet' and 'Village' transceivers. I know =
where
most of these KWM-2As have been, but I didn't realize Hallicrafters was =
so
much into it until Dachis. Obviously, Bill Halligan was a ham and =
consumer
person, who had written the book on the industrial-military relationship =

(50,000 Sx-28s!) in one war and wanted to close the books and get out
of another. Hallicrafters (and National and others) had been dragged
down by the TV era (as happened more recently to IBM with pcs).

If you seek more background on the demise of the American Iron Industry-
Don't pass up Chuck Penson's "Heathkit, A Guide to the Amateur Radio
Products". He devotes the first 50 pages to the background history
of the Consumer/Communications industry in general and the Heath
Company and its product marketing in particular. Chuck conducted many
hours of interviews with former Heath engineers. His approach gives
a fine socio-economic overview of the period. And then there's another
200 pages of Green Machinery itself!

What's really missing in Dachis is found in the old, out of print
The Hallicrafters Story 1933-1975 by Max de Henseler HB9RS pub. by =
(absorbed by AWA) Antique Radio Club of America in 1991
It has specs, schematics, narrative descriptions, tube lineups. More=20
History, conjecture. But its not pretty.

See 'Update' post for info on Heath. We will start call-up for orders =
(\$21
shipped) Wednesday. Barry shipped first batch to me Monday.

Jim Dillon beadgal@ptialaska.net
(seeking S/SX-9, S-14, 8R40, carrier meter for -16/17)

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: Halli/Heath Books Update
Message-ID: <01BB35F3.F322F4A0@juneau_41.dialups.ptialaska.net>

Hi bibliophiles-

As of Monday have received checks for 'Hallicrafters' from:

Burge	Collier	Dillman		
Douglas	Flasch	Floyd		
Gable	George	Hagen		
Kolb	Kovaks	Johnson		
Lee	McCoy	Michael	Medley Pridgen	Ragsdale
	Rashkin			
Sanders	Shepard	Taylor		
Templin	Waguespack	Watson		
Wieder	Youngman	Zitzelberger		

Others who mailed theirs Fri/Sat will be in Tuesday. I'll fax all these to publisher to mail out Wednesday. If you mailed your check Monday or get it mailed Tuesday, I'll get it in time for second mailing Friday. Thanks

On Heathkit: A Guide To Amateur Radio products by Chuck Penson
Wait 'till Wednesday and my notice to check in with your mailing address.
It will be \$21 shipped and so far 35 have wanted a copy (or two). Books are on the way to Juneau to be mailed from here next week.

Thanks to all who promptly sent out their Halli payment. if you haven'y yet:
Hi Tec
201 Seward St.
Juneau AK 99801

Jim Dillon WL7CMQ beadgal@ptialaska.net
(seeking S/SX-9, S-14)

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: HAM PRICE GUIDE
Message-ID: <9604292031.aa02170@pcusa01.ecunet.org>

I don't know if I care much for a 'blue book' price guide for BA stuff.
Sounds too much like commercialism, used car sales, and other such

unpalatable stuff.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: IERC tube shields
Message-ID: <3185780F.3E8E@ghgcorp.com>

Does anyone out there have a source for IERC (I hope I got that right) tube shields?

I hear that they run the tube cooler than the plain aluminum ones. If this is indeed the case, I'd like to replace the plain ones on some of my equipment with them...

I could understand from a heat transfer point of view how they would work better... More heat transfer area, closer to an ideal blackbody radiator due to the black coating, but I would bet that most of the heat transfer is by conduction and convection...

Thanks and 73,
Ben

--

=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
=====

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Krylon spray paint
Message-ID: <199604300334.WAA10008@zoom.bga.com>

One of the "junk" items I picked up at Belton last week was a resistance bridge, model ZM-4B/U, made by Taffet Electronics, Inc., with an order number that looks like 1936. The case for the unit had gotten a brush paint job which was badly chipped, so I stripped the whole thing. I decided to try Krylon paint on this thing.

All I can say is, whew! I had a lot of trouble getting coverage without runs and sags, and the stuff doesn't dry for beans. I painted the box one color (not the original haze grey) and the hardware (four cover clips) another. The box finally dried non-tacky after 24 hours, and the hardware is still tacky in places after 18 hours. I wish I had the stuff out of the spray can and a good Binks sprayer---it needs more reducer, and more dryer. All I can say is that as air-dry enamel, Krylon paint is a tough way to go.

I'll probably have to let the paint cure for a week before I can reassemble the thing. The case is a nice cast aluminum job with cover and gaskets at all points to make it water-tight (it says here) when closed. It comes with battery pack (looks like 4 D cells) and galvanometer, so I've got something for making accurate resistance measurements.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Looking for RME-69 S-meter (was RME(45) part again)
Message-ID: <A3049ZWGYH9UU5*/R=OUVAXA/R=A1/U=POST/@MHS>

When Ed Zeranski graciously offered an s-meter for an RME, I was hoping it was the one that fits an RME-69. There is an RME-69 sitting in the ham radio display room in the Museum of Radio and Technology in Huntington, West Virginia without an S-meter. Some of you may have seen it. I don't believe the RME-45 meter will fit or that its innards are compatible. So if anyone comes across this part, please consider donating it to the museum. The RME-69 looks a bit strange next the nice Nationals including HRO-60, NC-173, NC-183D, NC-109, etc, sort of like an old soldier with an eye-patch. I am volunteering as the museum webmaster (and as occasional guide). The URL is
<http://www.library.ohiou.edu/MuseumR&T/museum.htm>

73 de Rich KB8TAD <rpost1@ohiou.edu>

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: Re: Meter Mystery
Message-ID: <3184EDC8.5373@mail.n-link.com>

Jim Lyle wrote:

>

> Would it make

> sense to try a bulk tape demagnetizer, to see if it makes a difference?

I strongly recommend that you DO NOT try to demagnetize a meter. You

might be successful, in which case you will destroy the meter's calibration, if not its usefulness entirely.

I have seen this phenomenon time and again, and it seems to be the normal static charge thing. It doesn't take much charge to move a meter needle, so you don't have to build up 20-30 kv.

> Of course, if this were the case I'd expect ferrous materials to have a
> different effect than non-ferrous materials, and wood and plastic shouldn't
> do much at all... strange...

>

> --

> Jim Lyle jlyle@netcom.COM

--

73,

Dube Todd AB5AP dube3@n-link.com

If we had to tolerate in others all that we permit in ourselves, life would be completely unbearable.

- Georges Courtelline

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996

From: JOHN_SEHRING.parti@ecunet.org

Subject: MORE RADIOS I HAVE NEVER SEEN--HALLI S-40

Message-ID: <9604292031.aa02168@pcusa01.ecunet.org>

Re: Halli S-40 instability...

The older ARRL SSB Handbooks had some fixes to make this rx better for SSB.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996

From: maccary@on-ramp.ior.com

Subject: More weird tubes

Message-ID: <m0uE4is-000T5FC@on-ramp.ior.com>

Sheldon Wheaton and Dick Gray have been discussing strange tubes and this reminded me of

some odd ones in my collection. One is a GL-2H21. It has a jumbo 11 pin base the size of a CRT

and when I looked at it I thought it was a decatron or a photomultiplier but it has no screen for

digit display a la decatron and no window as one would find in a PM tube.

The next oddball is a 1B29. It is a glass cylinder about 3 inches long with the exhaust tip on the side. It has a large cap on one end and a smaller one on the opposite and appears to plug into a holder like a cartridge fuse. My guess is it is a voltage regulator.

Number three is a 4043, a short glass cylinder with a large metal disc in the middle of the glass part and a metal cap on each end sort of like the metal ends of a Buss fuse.

The last one is a 2-01C by Eimac. It is a glass bulb about an inch long with a short wire lead on one end (like a 35T triode) and a cylindrical metal base on the other with a piece of pipe sticking out where the vacuum was sealed off.

I have other weird tubes but this is a start on trying to identify them.

Mac--WONAX

Lawrence M. MacCary --- A Subscriber at Internet On-Ramp, Inc.

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996

From: Scott Townley <nx7u@primenet.com>

Subject: Re: More weird tubes

Message-ID: <199604300415.VAA01465@primenet.com>

At 21:00 29.04.1996 -0500, maccary@on-ramp.ior.com wrote:

>Sheldon Wheaton and Dick Gray have been discussing strange tubes and this
>reminded me of
>some odd ones in my collection.

.snip snip

>The last one is a 2-01C by Eimac. It is a glass bulb about an inch long with
>a short wire lead on
>one end (like a 35T triode) and a cylindrical metal base on the other with a
>piece of pipe sticking
>out where the vacuum was sealed off.

This guy is the world-famous RF diode used in HP410A/B/C VTVMs. They are used in a simple detector circuit to measure RF from 1V to 300V up to 600 or 700 MHz.

Many '410s lack their diode in the probe assy, and their AES/surplus price is astronomical!

Scott Townley "When the Going gets Weird,
nx7u@primenet.com the Weird turn Pro"
 -Dr. Gonzo, Sports Editor

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "Dick Gray" <rjgray@rmii.com>
Subject: Re: More weird tubes
Message-ID: <m0uE6tR-000JpqC@rmii.com>

On Mon, 29 Apr 96 22:17:23 -0600, Dick Gray wrote:

>Mac,
>I did some digging and came up with the following info.
>2H21 was called a phasitron (phase-modulator)
>cathode 6.3V @ 300mA, anode=300V, deflector=100V. rf out=4V, freq
> for max ratings=500KHz.
>
>1B29 is a spark gap modulator designed to switch 2.8kV @ 27A peak for
>0.75usec @ 2000pps. It has a hydrogen-argon fill.
>
>4043 is a pencil triode used as an amplifier. Po=5w, 500MHz typ.
>
>2-01C uhf instrument diode output within 1dB to 700MHz, useful to
>3GHz. Htr 5.0V @ 310-390mA, 1000prvmax, 100mW diss. Used in HP 410B
>VTVM among others in the RF probe. Hope this info is useful.
>--Dick--
>rjgray@rmii.com
>

--Dick--
rjgray@rmii.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: Phasitron
Message-ID: <Pine.ULT.3.91.960430113131.20337A-100000@dua150.kpt.emn.com>

On Tue, 30 Apr 1996, Mac MacCary asked about a 2H21:

> Sheldon Wheaton and Dick Gray have been discussing strange tubes and
> this reminded me of some odd ones in my collection. One is a GL-2H21. It
> has a jumbo 11 pin base the size of a CRT and when I looked at it I
> thought it was a decatron or a photomultiplier but it has no screen for
> digit display a la decatron and no window as one would find in a PM tube.

Dick Gray replied:

>I did some digging and came up with the following info.
>2H21 was called a phasitron (phase-modulator)
>cathode 6.3V @ 300mA, anode=300v, deflector=100V. rf out=4V, freq
> for max ratings=500KHz.

For those not familiar with this technology, this very unusual (and likely very RARE) tube was used in early FM transmitters. A discussion of its operation can be found in Seely and Terman's "Electron Tube Circuits" of 1950. Some other strange tubes were also developed to produce FM. RCA had one design that used an electrostatically deflected tube similar to a CRT that had a conductive spiral trace instead of a phosphor screen. This spiral trace was part of an oscillator circuit and where the beam hit the trace determined the phase of the gun current.

I believe most of these special tubes and circuits were designed to bypass Edwin H. Armstrong's patents. Remember that in the early days, generating FM was not really a problem but maintaining the carrier frequency stability was difficult. Thus many schemes started out at relatively low frequencies and were multiplied many times to get the final carrier frequency and deviation.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Please contact the sellers // Jeff KH2PZ
Message-ID: <Pine.SV4.3.91.960429213553.16517A-100000@uhunix5>

>From debral@falcon.cc.ukans.edu Mon Apr 29 17:22:35 HST 1996
New original PJ-068 microphone plugs manufactured by Kings Elect.
These are the MIL-SPEC mic connectors supplied as original
equipment to the military and Collins Radio.
Fits Collins, Drake, and others that specify a .206"
3-conductor phone-type mic plug. \$7.50 includes postage

>From cjohnson@aea14.k12.ia.us Mon Apr 29 17:22:58 HST 1996
I have a Drake MN-2000 Antenna tuner for sale. A few slight scratches
on the top, front panel is mint. Works perfectly. \$225 plus shipping.
Also an MN-4 tuner. same condition \$125 plus shipping.
I'll sell one or the other or consider trade for Swan 250-C or Drake TR-6

>From allen80@usa.pipeline.com Mon Apr 29 17:30:37 HST 1996
FS: RCA RADIOLA 17 & Speaker

One of the 1ST, AC powered radios made! Cabinet and trim in very good condition. 100A speaker has new speaker & grill cloth. Radio has all good tubes and works fine. \$125 Firm. Can be seen/bought in Durham, NC or will ship UPS ground for \$150, Prepaid. Email if interested.

>From k8mn@clinet.fi Mon Apr 29 17:38:45 HST 1996
Looking for a Hallicrafters heterodyne VFO. I think the model is HA-5. Must be in good cosmetic and working condition and be reasonably priced.

>From phunter@ola.mv.com Mon Apr 29 17:40:25 HST 1996
Heathkit HW-17A 2-Meter Transceiver status unknown. Cabinet and face in mint condition. Manual, power cord, and mic, included. Crystal transmit, vfo receive. No crystals in unit, only know that unit powers up. Asking \$50.00 plus shipping. E-mail or voice Mon-Fri 10:00a-4:00p

>From RonHines@gnn.com Mon Apr 29 17:43:21 HST 1996
Mint condition Heath SB230 Amplifier. Built by a technician, and used very little. 1200w input with 8873 final. Unit looks and operates as brand new! All manuals included. \$520. shipped to you.

>From centrak@en.com Mon Apr 29 17:43:41 HST 1996
I have 2 ART-13 dynamotors for sale @ \$75 a piece. Sorry no connectors.

>From neidich@hooked.net Mon Apr 29 17:43:56 HST 1996
To receive a handy reference list of command transmitters, receivers put ARC-5 in your reply.
I need clean, unmodified aluminum finish (BC- series) transmitters and receivers for a B-17 radio shack restoration project. Thanks.

>From kz8e@wt.net Mon Apr 29 17:44:09 HST 1996
Drake WH-7 SWR/Wattmeter
20/200/2000 watt ranges
large meter face
remote sensing head \$100

Reply to: MurrayL@macatawa.org
Heath 54-xxxx power transformers.
Not organized yet...send part number you need & I'll see if it's in my garage.

>From schutt@netcom.com Mon Apr 29 17:44:33 HST 1996
Estate Sale: Collins 75A-1 Receiver with matching speaker \$500. Located in San Francisco Bay Area. E-mail me if you are interested.

>From braymer@InfoAve.Net Mon Apr 29 17:44:44 HST 1996
For Sale a Drake Model RV-4C Remote VFO in Very Mint-Condition works fine with the Drake HF Radio. \$295.00 shipped

>From jbgooode@scn.org Mon Apr 29 17:45:19 HST 1996
hallicrafters S85 '48 \$110

>From brlpe@worldnet.att.net Mon Apr 29 17:45:39 HST 1996
Robbie, K04EE is looking for a National NC300 or NC303 receiver in good condition. Please email details to me and I'll pass along the info.

>From 102007.1261@CompuServe.COM Mon Apr 29 17:51:20 HST 1996
Looking for 75A3 and 75S3B mechanical filters...AM and SSB... CW will be useful but not as important... Contact me at
Sales Agent for the Pocket Guide to Collins Amateur Radio Equipment 1946---1980 Bob Peters KK5FJ

>From wb6lna@dancris.com Mon Apr 29 17:53:57 HST 1996
Will pay cash and shipping for COLLINS SC-101 station control unit in any condition>

>From n8htv@sprynet.com Mon Apr 29 18:02:46 HST 1996
Collins 75A-4, s/n 2810 and 270G-3 speaker
Both pieces professionally refinnished by Howard Mills, W3HM
Non-original, professionally made, trim cap cover has a polished finish, unlike the original. (actually looks better!) \$800 obo

Reply to: MurrayL@macatawa.org
Unopened box Heath 110-28 LMO replacement for SB110/A. Same as other tube LMO's except dial direction is backwards from HF versions. \$60+ship

>From rmccarty@deltanet.com Mon Apr 29 18:03:54 HST 1996
I have an extra Galaxy GT-550A for sale. The transceiver is clean and is complete, sold without power supply.
Works very well although may need some work in the agc circuitry. On a 10 scale, 6 -7 cosmetically. \$125obo

>From jserocki@wwa.com Mon Apr 29 18:04:16 HST 1996
Hallicrafters HQ-10 transmitter, best offer.
Drake T4/R4 system, \$250

>From 178896@xavier.xu.edu Mon Apr 29 18:05:42 HST 1996
I'm looking for about 20 two piece 250W sockets to disply tubes in my colleciton. These sockets would be for tube types 204A, 206, 218, 849, 851, 861, or 1651, to name a few. If you have any of these sockets (or interesting tubes for that matter) contact me, Jim Cross, at 178896@xavier.xu.edu or

NNNN

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: stever@cybercomm.net (Stephan Rashkin)

Subject: Present day kit sources??

Message-ID: <199604301706.NAA05832@raven.cybercomm.net>

Anyone have a list of companies that still produce any type of radio kits? My 14 year old son (KB2ITV) went wild when he saw my newly aquired Heath "Two'er"..It was real tuff trying to explain why stuff like that was no longer available.. My wife told me she's been finding some of my old radio magazines hidden under his pillow!!

Thanks 73,

Steve, WA2NHZ

Looking for: 1. More money to buy more stuff :0)
2. More room for more stuff
3. Camouflage netting to hide stuff from XYL

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: R-388/389/390/390A/392 contract/serial numbers
Message-ID: <Pine.SUN.3.91.960430114617.2162C-1000000@coyote.rain.org>

Tom, N50FF is doing a great job collecting this information so we can perhaps begin to get a handle on how many contracts and how many receivers of each type were produced. However, there is another source that:

- a. Appears to be untapped
- b. Would require perhaps two hours or so to "tap"
- c. Could be done by one person (although two would be helpful)

Has anyone thought of dropping by Fair Radio of a fine Saturday morning with pad and pencil in hand? A clipboard, with 1-inch columns ruled beforehand and each column dedicated to a single contract/order number on a given receiver should make short work of this. A blank page could be used for contract/order numbers not already having a column. All that would be required is entering each serial number in the appropriate

column. Although it would be nice to do *every* receiver in the area, that probably wouldn't be possible. What should be possible, though, is to gather more data in an hour or so than Tom sees all year long!! A photocopy of the "log" could be mailed to him, eliminating the need to do the extra work of typing it up for email. Phil and George have generally been most helpful in other aspects of collecting, and would probably go along with this information-gathering expedition.

The critical need is for someone on the list who lives within easy driving distance (preferably local, to minimize time spent on it) of Fair Radio, and who is willing to devote at least part of a morning to the task. Does such a rare bird exist? If so, how about letting Tom know (n5off@w5ddl.aara.org) of your availability? If we have no takers, how about one of you folks who is already planning on Dayton (and staying an extra day to visit Fair Radio anyway) taking on the task? Or maybe several such folks? If you'll let Tom know, he could put several like-minded folks together who could make fast work of this little project.

73.....Ray Mote, W6RIC <rmote@rain.org> Oxnard, CA (far into the boonies)

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Pete McCollum 30-Apr-1996 0948 -0600 <mccollum@ssdevo.ENET.dec.com>
Subject: R-390A meters
Message-ID: <9604301549.AA06606@us3rmc.pa.dec.com>

Can anyone describe the 'correct' meters for the R-390A ?
I.e., the sensitivity, and type of markings on the dial.

Thanks,
Pete
MCCOLLUM@SSDEVO.ENET.DEC.COM

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Charles Mann <mann@idirect.com>
Subject: Rochester NY Hamfest?
Message-ID: <199604292357.TAA19811@lucid.idirect.com>

Hi gang, does anyone have the pertinent poop concerning the above? Like date, times and directions as to where it is. I plan on going via Buffalo from Toronto.

Any BA related things going on?

73's

Charles
mann@idirect.com

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Herb Holeman <choleman@ptialaska.net>
Subject: RTTY current loop
Message-ID: <01BB3623.6D13F3C0@juneau_60.dialups.ptialaska.net>

Dusting off the cobwebs from that part of my brain....back in the 60's and 70's I operated a Teletype corp. model 15 page printer and keyboard in a current loop configuration. As I remember, the older printers with a "pulling" selector magnet required a 60 millampere current loop if the magnet coils were in series (standard) configuration while the later model upgrade had a "holding" selector magnet which usually ran 30 ma. I was never lucky enough to have the later model, so I ran a 60 ma loop. This current was typically supplied by a power supply which ran about 110 volts filtered DC with enough series resistance to set the current to the proper value. The entire station TTY equipment was included in this loop--the selector magnet in the printer, the keyboard, the T-D (tape reader), the tape punch (perforator), and a reperforator. The latter three were options or were all part of a model 19 table setup.

For amateur use the terminal unit (TU) usually was built with a loop supply included, or else it drove something called a "polar relay," which was a rather touchy device which required careful alignment by an extremely weird individual who did little else in life but painstakingly adjust polar relays until they didn't have "bias" -- whatever that was. All I can remember is that bias, in this context, was evil incarnate and was to be avoided at any cost! The polar relay's job was to make and break the circuit in this current loop.

Many amateur TU's included a loop supply and a thermionic valve such as a 6Y6 to key the loop. This could drive the selector magnet directly, as mentioned above, without the heartbreak of a polar relay. This worked just great until you decided that it would be even more exciting to transmit your spastic typing to the rest of the world via an amateur radio transmitter. At that point, most of us bit the bullet, coughed up a few bottles of whiskey for the guy who had the polar relay cache, and then tried to figure out how to connect the relay to key the transmitter.

In my own 1960's RTTY station, my TU included a loop supply which drove the selector magnet with the keyboard in series. I didn't have tape gear at all. I didn't have any money back then either, but that's another story. In order to key the transmitter, I inserted one of the polar relay windings in this loop, while the other winding got a steady current of double the loop value. Then the contacts on the polar relay were used to

key a small voltage on a varactor diode on the tuned circuit of the pto or vfo of my transmitter. This scheme worked great and avoided any problems of ground loops or potential differences involving the current loop, which is supposed to float by itself. Because the keyboard was in a series loop with the selector magnet, I could see what I was typing on the printer during transmit. I was also very fortunate in the late 60's to find a miniature polar relay made by Smegma which replaced the nasty old TTY corp. polar relay which required the zen guru to keep it in adjustment.

Suffice to say that your question points up a non-trivial problem, and I hope this rambling makes some sense! Good luck and enjoy RTTY -- I sure did, and I still enjoy it using sand-state gear and a personal computer.

de Herb Holeman, WL7BIL
Juneau, Alaska
choleman@ptialaska.net

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: RTTY current loop
Message-ID: <Pine.SCO.3.91.960430075941.9832A-100000@sd.cts.com>

On Tue, 30 Apr 1996, Herb Holeman wrote:

> current loop configuration. As I remember, the older printers with a
> "pulling" selector magnet required a 60 millampere current loop if the
> magnet coils were in series (standard) configuration while the later model
> upgrade had a "holding" selector magnet which usually ran 30 ma. I was

I remember the lower loop current as being 20 mA, although we only ran 60 mA loops in the Navy aboard ship.

> relays until they didn't have "bias" -- whatever that was. All I can
> remember is that bias, in this context, was evil incarnate and was to be
> avoided at any cost! The polar relay's job was to make and break the
> circuit in this current loop.
>

"Bias" is a type of timing distortion, where marks would become longer and spaces shorter or vice versa. The polar relay did something wierd, i forget exactly what, - changed a +/- current to a off/on current or something, by having a contact which sat in a middle position and got pulled to one side or the other. If the contact spacings were not equal, it would take longer to move one direction or the other. We used a simple mercury wetted relay in our loops where required.

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: Re: RTTY current loop
Message-ID: <Pine.OSF.3.91.960430112307.25823D-100000@abernathy.tenet.edu>

Polar relays were originally used to switch a wire line teletype circuit in which two opposite but equal voltages were used to represent the mark and space. The idea was to balance the signal distortion over long lines. Radioteletype circuits use a neutral signalling scheme in which the mark is a 60 ma current (with coils in series - the common arrangement) and the space is zero. Normally the current was supplied by a "constant current" source created by using a DC supply voltage of 110 Volts and an adjustable resistor to regulate the magnet current thus allowing for more than one set of magnets to be in series.

Hams don't need a polar relay. Any relay that is reasonably fast can be used for keying or an electronic scheme can be used. I have had quite a few TTY machines during the sixties and seventies but I never used a polar relay. I can't really remember exactly how I keyed the transmitter but I think I did it electronically.

The Teletype Corporation made solid-state magnet drivers for their heavy-duty (i.e. model 14, 15, 19, 34, 35, etc.) machines. They were pretty nice. Mounted in the rack in back of the machine and presented a pure resistance to the line. They also contained a power supply for the magnet circuit but I don't think that it was a very high voltage like the earlier stuff. Wartime (WW-II) teletype circuits usually ran on 110 volts.

Lenox, WA50VG

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: don merz <71333.144@CompuServe.COM>
Subject: Scott Allwave 12 Info Needed
Message-ID: <960430185434_71333.144_DHB36-3@CompuServe.COM>

WANTED: Manual, schematic and any info on E.H. Scott Allwave 12 radio.
Also need knobs for this 1932-vintage radio.

Thanks.

Don, N3RHT

71333.144@compuserve.com

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: SSB on R-366/TRR-5
Message-ID: <318570D9.4399@ghgcorp.com>

Hello everyone...

Got a question for you R-366/TRR-5 owners and I guess a question for all you tubesters out there...

Tuning around on the R-366 tonight and picked up some SSB out of Dayton Ohio (WBASMC was the call, "Dayton Special Events") on around 14.250MHz... I didn't think it was possible to pick up such clear SSB on radios without a product detector!

Is this usual or is it just very good propogation conditions?

I just turned on the BFO and was able to tune in the station and adjust speech quality with the BFO adjust (marked CW OSC on this radio)... Takes a steady hand, but... This radio continues to amaze me day in and day out...

THanks and 73,
Ben

--

=====
+ Benjamin D. Hall, Houston Texas +
+ BDHall@GHGCorp.com BHall@GP802.JSC.NASA.gov +
=====

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: bill@skeeter.frco.com (William Hawkins)
Subject: Tek type 3A1 plugin needed
Message-ID: <9604301815.AA12027@skeeter.frco.com>

Went to a hamfest at a deserted racetrack last Saturday. The track is Canterbury Downs, in Shakopee, MN. Took maybe 20 minutes to scan all of the tables. Bought mostly books - more about that later. There was at least one representative of the audio group selling expensive tubes, loudspeakers (up to 15"), and TV-2's for \$200. It was nice to see a TV-2, but real easy to quell the desire to own one. TV-7's were \$75, I think.

The highlight was Al Erlandson WB0RXY, a retired votech teacher (Dunwoody). He had homebrew stuff, good books, and some Tek plugins - including a

Type Z unit. After talking to him for a while, he mentioned that he is looking for a type 3A1 plugin for a Tek 561, and would pay maybe \$30 for it. If anyone has one for sale, please call him at 612 869-2824. I told him that I would take his request to our group.

Does this give you an idea of how sparse Minneapolis area hamfests can be for BA stuff?

Regards,

Bill Hawkins bill@bvc.frco.com [moved from texan to skeeter]

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Peter Ferrand <petef@sprynet.com>
Subject: Re: Vancouver,WA hamfest report
Message-ID: <2.2.32.19960430023911.006a3168@sprynet.com>

Hey Terry, you got some super deals...

But:

At 04:04 PM 4/29/96 -0500, Terry Burge wrote:

>Ameco 2mtr transverter \$1/Ameco 6mter transverter w/transformer \$5 (needs
> work) (mine). Tube joby's.

These are undoubadly Ameco receiving *converters*. Not transverters.

6CW4s (if its the Nuvistor one) or 6ES8s (the miniature tube one) do NOT like to be transmitted into...

-Pete (just being cute :-)
WB2QLL
petef@sprynet.com

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Re: W0CY estate
Message-ID: <199604300314.XAA25907@borg.mindspring.com>

At 03:54 PM 4/29/96 -0500, you wrote:

>I went to the estate sale of W0CY the other day. Jim had done a lot of
>contesting in the 30s and 40s and 50s and 60s, but had given it all up to be
>one of the founders of AMSAT. I purchased (FOR \$5.00) QSTs from 1959 to
>1964. I had a ball going through those mags looking at all the wonderful

>rigs. The DX-20, 40 (34.00 bucks) and 60. The RME, Hallicrafters, National
>and Hammarlund receivers. The early moden KWM-2 and what someone thought
>would be a winner...the COSMOPHONE. Anyone ever used a Cosmophone
>transcierver?

Lee, Cosmos made three versions of the Cosmophone, the 35, the revised 35
as the 50, and the 1000. Only problem was the receiver was not as
sensitive on 15 and 10 (I remember they rated the receiver at 1 mv@6db s/n
rather than 1mv at 10db s/n of Collins and Hammarlund). You could operate
transceive, split, and reverse the split. Cosmos also made the PTO for the
R390A and others discussed on BA recently.

Wish I could find one.

> Antennas had names like Hornet (Duncan OK)

Hornet antennas sold out to Swan as the TB-2,3, 4 series from 1969 to the
end of Swan. I had the TB-4 for several years.

73, Dave K4JRB

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: Sandy Blaize <70401.134@CompuServe.COM>
Subject: WANTED! Grid Clips!
Message-ID: <960430002128_70401.134_IHD126-7@CompuServe.COM>

Wanted: A number of National #24 Grid Cap Clips. These are
the simple one piece metal clips that fir the caps of such tubes as the
6146, 807, 2E26, 6A7, 58, 6D6 etc. etc. No, I don't want any of the Millen
or National CERAMIC cap connectors. AES sells these and I have a few
in my junkbox, what I want is the simple metal clip variety! Look thru your
junk box BA'ers and let me know what you have.

73,
Sandy W5TVW

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: dvorkin@pcs.mot.com (Vlad Dvorkin)
Subject: WTB: BC-229 & BC-230
Message-ID: <199604300116.VAA05038@iron65>

Hello everybody,

I am still looking for BC-229 receiver and a BC-230 transmitter.
Also looking for plug-in coils for both units.

Please reply directly to vlad at: dvorkin@pcs.mot.com
or call: 847-632-5093 (daytime).

Regards,
Vlad Dvorkin
ex. UA3ACR

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: WTB: CINCH-JONES CONNECTOR
Message-ID: <9604292031.aa02186@pcusa01.ecunet.org>

I used FM50A on 2 meters in late 70's. Have only a schematic. Threw out manual & pwr plug on last move, "who'd ever need such a thing?" Aieeee!

Used the FM50A for use on a local repeater (one channel). Then, put small a solid state tunable front end salvaged (savaged?) from Heath VHF-FM receiver (GR-??), as both had a 10.7 MHz IF freq, to tune 150 to 174 MHz.

Also used FM50A as an outboard FM IF strip. Its 2nd IF frequency (1650 KHz) matched Halli SX-96/-100/-101/-101A 1st IF frequency (also 1650 KHz) to give a tunable 10 m FM receiver. Used simple, no-mod connection between the two (see ARRL Hints & Kinks book (1978), p. 108). Also had tunable 6m and 2m FM coverage w/converters.

Also FM'd my SSB exciter by feeding audio directly to a varactor already in its VFO. I worked the world on 10m FM in late 70's.

(Then I started FM'ing PLL-02A CB circuit boards a 10 K1DCS, but that's a whole other story.)

Remember, this was well before HF rice boxes had FM built in. Land mobile BA's (mostly Motorola and G.E.) ruled 10m and 6m FM!

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "Manuel A. Maseda WF1J" <mmaseda@Packet.Net>
Subject: WTB: Collins 399C-1 manual
Message-ID: <31856A0E.173B@packet.net>

Would like to find an original manual for a Collins 399C-1 Speaker/PT0.

Manuel WF1J

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: "William C. Robbins" <billrobb@serv01.net-link.net>

Subject: WTB: Heath Tube Checker
Message-ID: <199604301421.KAA17318@serv01.net-link.net>

My son Matt, N8UGD is looking for a Heath Tube Checker. His first choice would be the TC-1 but would consider any other.

Please reply direct to Matt n8ugd@serv01.net-link.net

Thanks,

Bill
William C. Robbins, WA8CDU ***Heathkit Collector***
billrobb@serv01.net-link.net

From boatanchors@theporch.com Tue Apr 30 10:34:32 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: WTB: Mech. Filter F455J-60
Message-ID: <199604301215.HAA15886@uro.theporch.com>

Anyone out there in BA-list land have one of these you'd be interested in selling?

(Its the 6.0 KHz AM filter for the 75A4)

Grant/NQ5T

Grant Youngman / NQ5T
nq5t@gte.net
[HTTP://home1.gte.net/nq5t/index.htm](http://home1.gte.net/nq5t/index.htm)

Beautiful downtown Double Oak, TX

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: Albert S Woodhull <aswNS@hamp.hampshire.edu>
Subject: Re: XFK Frequency Shift Keyer
Message-ID: <Pine.SUN.3.91.960430131245.10454B-100000@hamp>

On Mon, 29 Apr 96 11:06:28 PDT jproc@worldlinx.com wrote:

> I have been studing the manual for the above RTTY keyer made by TMC. It
> appears that it will accept either a set of dry contacts for the keying
> input or Teletype equipment which produces a voltage output anywhere between
> 25 to 150 Vdc. Up to now, I was under the impression that all Teletype
> equipment only used current loops. Anyone in the group familiar with

I don't think there is any contradiction here. The loop supply for old Teletype machines was usually something over 100 volts, with appropriate resistance in series to limit the current to 60 ma. So you get a rather high open circuit voltage across an open set of contacts.

You can make the things work with lower voltage and lower resistance, but someone once explained to me that the high voltage high resistance loop is better, it compensates for the inductance of the solenoids that tends to slow the rise time of the current.

By the way, to anyone interested, I still have one Model 15 printer free to anyone who wants to pick it up in Amherst, MA. I used to have two, and Andy Dumas came by to get one last summer. I didn't let him take both because someone else had seemed really eager for the other one, but the other person never followed through. Andy?

73, Al N1AW

--

Al Woodhull
awoodhull@hampshire.edu
n1aw@k1mea.#wma.ma.usa.na
n1aw@ka1jy.ampr.org

From boatanchors@theporch.com Tue Apr 30 18:39:31 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: XYLS and BA stuff
Message-ID: <9604301733.AA20319@syseng1.se.melpar.esys.com>

I apologize in advance for the bandwidth, but I just have to pass this story on to the group.

Once upon a time, while discussing what would happen when only one of us was left, my long-suffering XYL commented, "Well, you don't have to worry about me having to fend for myself because I'm definitely dying first." When I inquired as to just why she was so sure, she replied, "You are *NOT* dying first and leaving me with all that junk in the basement!" and over the years this has become a sort of standing joke between us.

Last Fall, I encountered some slight chest pains which I thought felt like a mild hiadial hernia problem, but just to be on the safe side I paid a visit to the GP and he advised me to go take a stress test "just to check things out." When I took the stress test, the cardiologist saw some glitch he didn't like

the looks of in the EKG and advised me to go have a thallium test at the hospital "just to verify that this glitch is a 'false positive' and not a sign of some cardiovascular problem."

This recommendation was not exactly comforting news (although it later turned out that there wasn't any heart/artery problem), and not wanting to alarm my XYL I explained in a calm, reassuring voice that the cardiologist wanted to have me take another test the following week "just to be sure everything is OK." She listened quietly until I finished, and without cracking a smile responded, "Maybe you should start cleaning out the basement this weekend....." then she giggled and apologized profusely, while I feigned indignation that she should be so crass (as if I were already standing at Death's door and knocking on the sucker).

Anyway, it's good to have an XYL with a sense of humor (or perhaps a sense of resignation?).

Paul, K4MSG